

## **FIGURE 1A**

**Amino acid sequence of human CCR5 [SEQ ID NO: 1]:**

1 **MDYQVSSPIY DINYYTSEPC QKINVKQIAA RLLPPLYSLV FIFGFVGNML VILILINCKR**  
*N-Terminus* **Transmembrane Domain 1**

61 **LKSMTDIYLL NLAISDLFFL LTVPFWAHYA AAQWDFGNTM CQLLTGLYFI GFFSGIFFII**  
*LOOP 1* **Transmembrane Domain 2** *Loop 2* **Transmembrane Domain 3**

121 **LLTIDRYLAV VHAVFALKAR TVTFGVVTSTV ITWVVAVFAS LPGIIFTRSQ KEGLHYTCSS**  
*Loop 3* **Transmembrane Domain 4** *Loop 4*

181 **HFPYSQYQFW KNFQTLKIVI LGVLVPLLLVM VICYSGILKT LLRCRNEKKR HRAVRLIFTI**  
**Transmembrane Domain 5** *Loop 5*

241 **MIVYFLFWAP YNIVLILLNTF QEFFGLNNCS SSNRLDQAMQ VTETLGMTHC CINPIIYAFV**  
**Transmembrane Domain 6** *Loop 6* **Transmembrane Domain 7**

301 **GEKFRNYLLV FFQKHIAKRF CKCCSIFQQE APERASSVYT RSTGEQEISV GL**  
*C-Terminus*

## **FIGURE 1B**

**Peptide fragments derived from human CCR5 that are used as target peptides:**

N-terminal fragment [SEQ ID NO: 8]:

**MDYQVSSPIYDINYYTSEPCQKINVKQIAARLLPPL**

Loop 4 fragment [SEQ ID NO: 9]:

**TRSQKEGLHYTCSSHFPYSQYQFWKNFQTLKI**

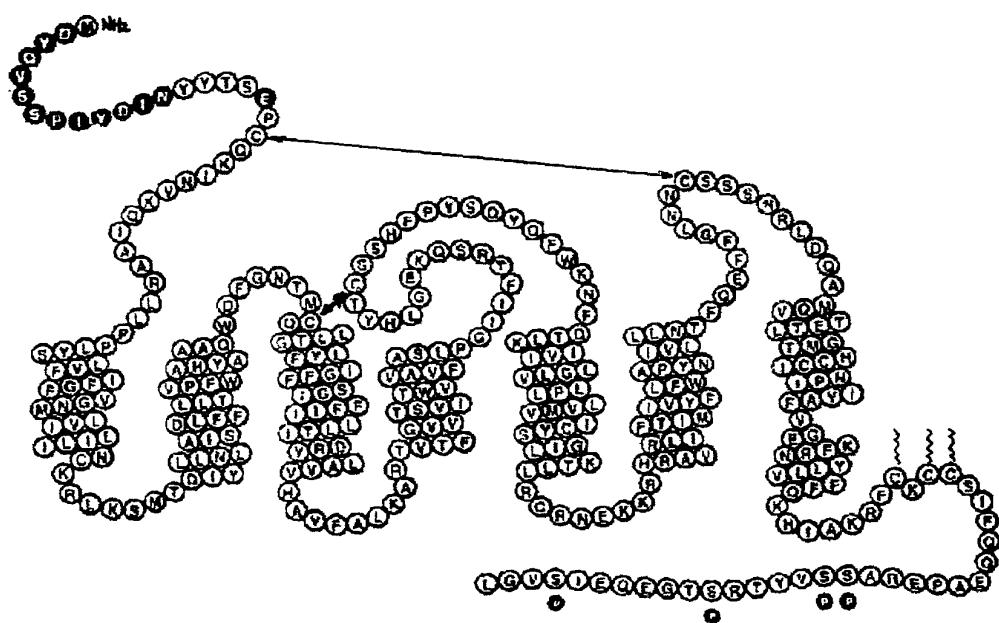
Loop 6 fragment [SEQ ID NO: 3]:

**EFFGLNNNCSSNRLDQAMQVTETLGMTHC**

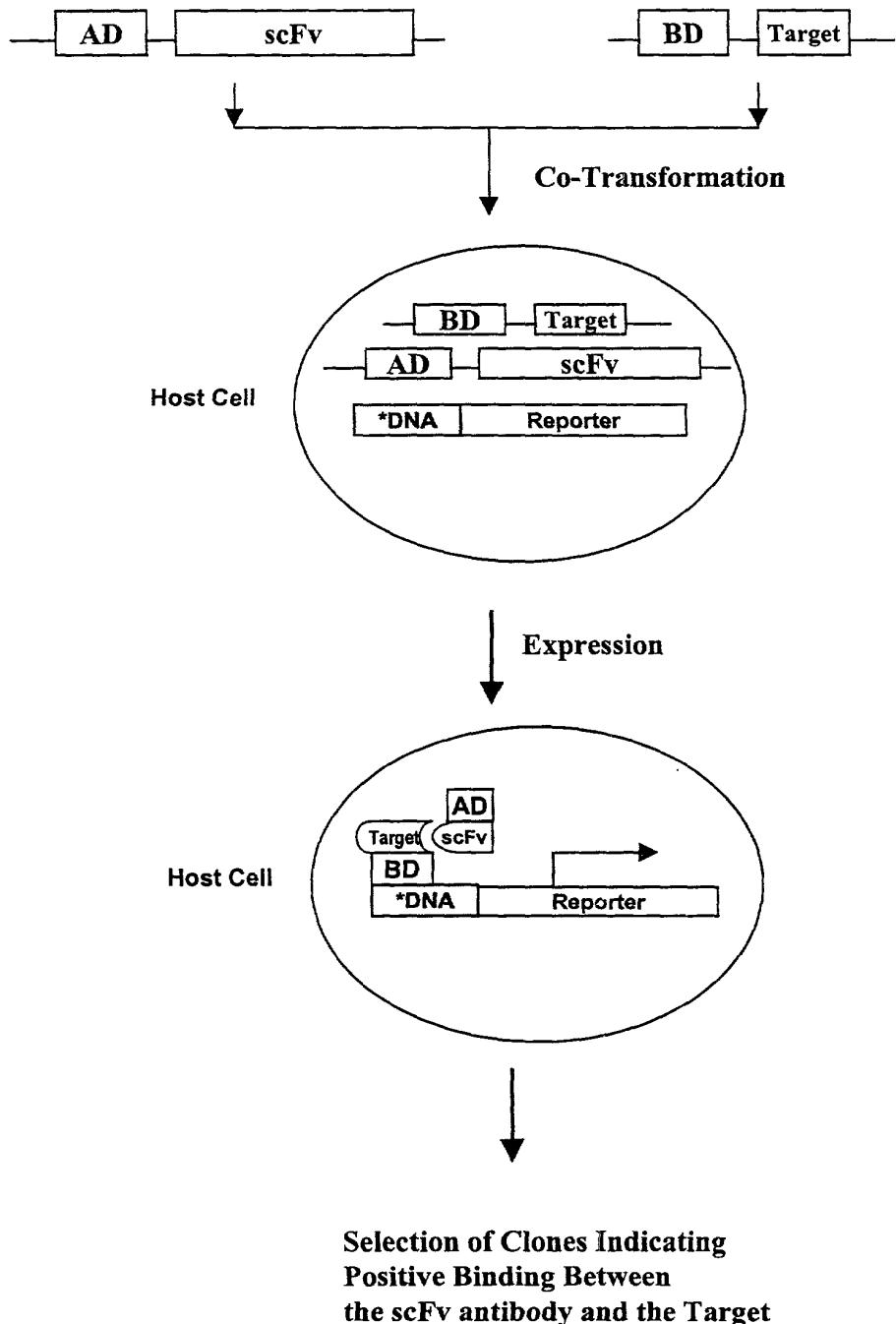
**FIGURE 1C**

**A model of the secondary structure of human CCR5:**

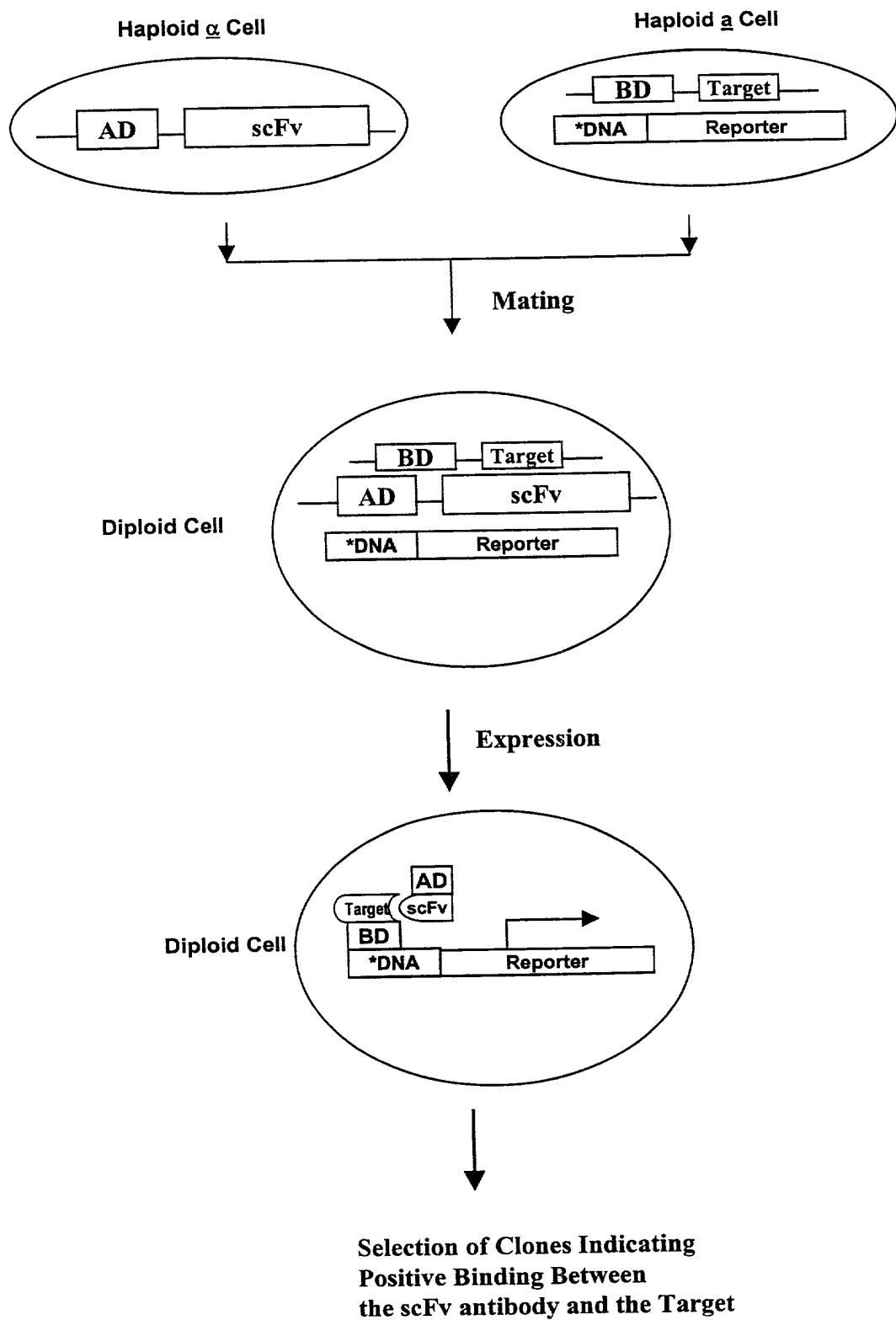
1000 900 800 700 600 500 400 300 200 100



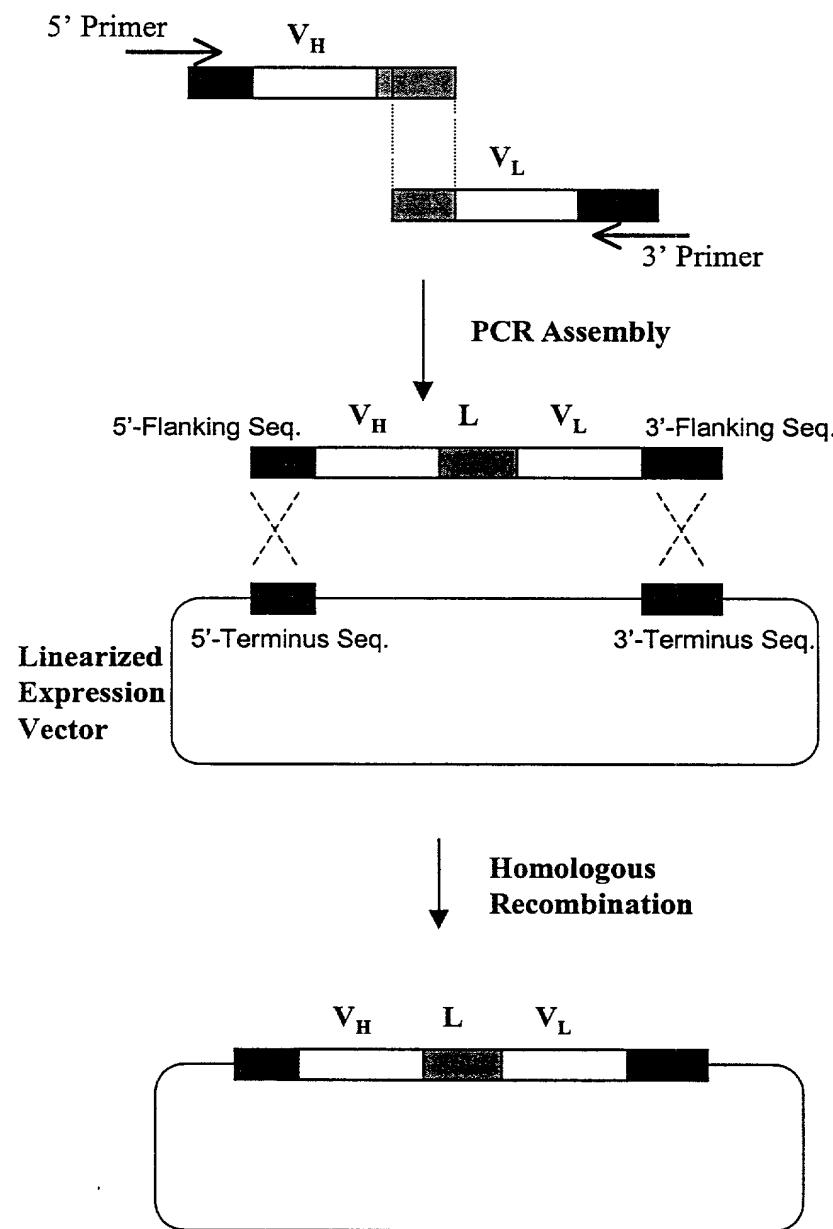
**FIGURE 2A**



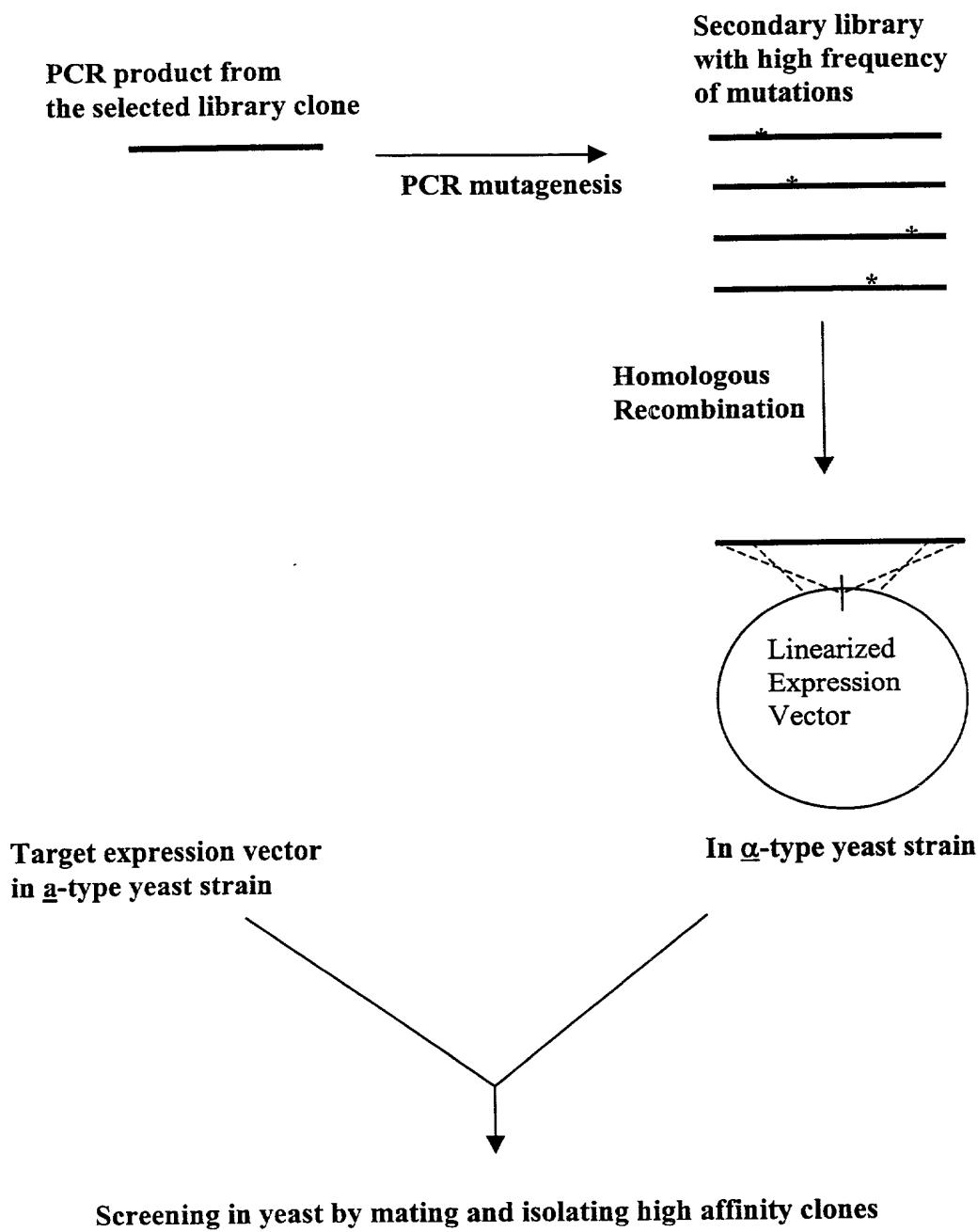
**FIGURE 2B**



**FIGURE 3**



**FIGURE 4**



## **FIGURE 5**

**DNA sequence of clone 15.186.35 scFv against N-terminus fragment of human CCR5 [SEQ ID NO: 16]:**

CAGGTTACCTTGAAGGAGTCTGGTCTACGTTGGTAAACCCACACAGACCCCTCACGCTGACCTGCACCTTGTCTGGTT  
CTCACTCAGCACTAGTGGAGTGGACTGGATCCGTCAAGCCCCAGGAAAGGCCCTGAGTGGCTTGCAAGCATAA  
ATTGGAATGATGATAAGTGCTACAGCCATCTCTGAAAAGCAGGCTCACCATCACCAAGGACACCCCCaAAAACCAGGTG  
GTCCTTGCATGAGCAACATGGACCTGCGGACACAGCCACATATTCTGTGCACTCGATATGCCCTCATGATAGTGG  
CCCGCAATCTTTGATGCTCTGATGTCCTGGGGCCAGGGACATGGTACCGTCTCTCAGGCGGTGGATCAGGCG  
GCGGAGGATCTGGGGAGGTGGCAGCGTGGTGGAGGCACTTCTATGAGCTGATGCACTACCCCTCAGTGTCCGTGTCC  
CCAGGACAGACAGCCAGCATCACCTGCTCTGGAGATAATTGGGGATAAAATATGCCCTGCTGGTATCAACAGAACCCAGG  
CCGGTCCCTGTGCTGGTCAATTATGGAGATAACAAGCGGCCCTCAGGGATCCCTGAGCAGTCATTCTGGCTCCAACCTG  
GGAACACAGCCACTCTGACCATCAGCGGACCCAGGCTATGGATGAGGCTGACTATTACTGTCAGGCGTGGACACCAGC  
ACTGCTGTCCTCGGAACCTGGGACCAAGCTCACCGTCTA

**Amino acid sequence of clone 15.186.35 scFv against N-terminus fragment of human CCR5 [SEQ ID NO: 17]:**

QVTLKESGPTLVKPTQTLTCTLSGFSLSTSGVSVGWIQPPGKALEWLASINWNDDKCYSPLSKSRLTITKDTPKNQV  
VLAMSNMDPADTATYSCALDMPPHDSPQSFDAASDVGPGTMVTSSGGGSGGGSGGGSSYELMQLPSVSVS  
PGQTASITCSGDNLGDKYACWYQQKPGRSPVLVIYGDNKRPSGIPERFSGNSGNTATLTISGTQAMDEADYYCQAWDTS  
TAVFGTGTKLTVL

**DNA sequence of clone 15.150.11 scFv against loop 6 fragment of human CCR5 [SEQ ID NO: 18]:**

CAGGTGCAGCTGCAGGAGTCGGGCCAGGACTGGTGAAGCCTCGGAGACCCCTGTCCTCACTTGCACGTCTCTGGTGG  
CTCCATCGGTATGACTACTGGAGCTGGATACGGCAGCCCCAGGGAGGGACTGGAGTGGATTGGTTCATCTTCTTCG  
ATGGGAGCACCAACTACAACCCCTCCCTAACCGTCGAGtCACCATCTCACTCGACACGTCGAAGAACATCAGCTCTCCCTG  
AGGCTGACCTCTGTGACCGCTCGGGACACGGCCGTGATTTCTGTGCGAGACTAAAGGGGGCGTGGTTATTGTCTGAACC  
CCCTTACTTCAGCTCCAGGGCATGGACGTCTGGGCCAAGGGACCACGGTCACCGTCCCTCAGGCGGTGGATCAG  
GCGCGGGAGGATCTGGCGAGGTGGCAGCGGTGGTGGAGGCACTAATTATGCTGACTCAGCCCCCTCAGCGTCTGGG  
ACCCCGGGCAGAGGGTCAGCATCTCTTGTCTGGGAGCAGCTCCGACATCGGAAGTAATACTGTAACACTGGTACCAAGCA  
ACTCCCAGGAACGGCCCCAAACTCCTCATCTATAGTAATAATCAGCGGCCCTCAGGGTCCCTGACCGATTCTCTGGCT  
TCAAGTCTGGCACCTCAGCCTCCCTGGTCATCAGTGGCCTCCAGTCTGAGGATGAGGCTGATTATTATTGTGCAGCATGG  
GATGAGAGCCTGAATGGTGTGGTGTTCGGCGGAGGACCAAGG

**Amino acid sequence of clone 15.150.11 scFv against loop 6 fragment of human CCR5 [SEQ ID NO: 19]:**

QVQLQESGPGLVKPSETLSLTCTVSGGSIGHDYWSWIRQPPGEGLEWIGFIFFDGSTNYNPSLNGRVTISLDTSKNQLSL  
RLTSVTAADTAVYFCARLKGAWLSEPPYFSSDGMVDWGQGTTVTPSGGGSGGGSGGGSGGGSNFMLTQPPSASG  
TPGQRVSISCSGSSSDIGSNTVWYQQLPGTAPKLLIYSNNQRPSGVDRFSGFKSGTSASLVIISGLQSEDEADYYCAAW  
DES LNGVVFGGGPR

**FIGURE 5 (cont.)**

DNA sequence of clone 15.150.12 scFv against loop 6 fragment of human CCR5 [SEQ ID NO: 20]:

CAGGGTCAGCTACAGCAGGGGCGCAGGACTGTGAAGTCTGGGAAACCCGTCCCTACCTCGCCTGCTCTGGTGC  
GTCGTTAGGGTtATTATTGGAGCTGGATCCGCCAGCCCCAGGgAAGGGGCTGGAGTGGATTGGGAGATCAATCATC  
GTGGAAGCACTACCTACAACCCGTCCTCGACGGTCGAGTCACCATATCATTAGACACATCTACCAACCAGATCTCCCTT  
AAACTGACCTCTATGACCCGGCGGACACGGCCGTGTATTACTGTGCAGGGACAGTGGCTGGTACTAGTACTACTGGGG  
CCAGGGAACCTGGTACCGTTCTCAGGGAGTGCATCCGCCCAACGGCGGTGGATCAGGCGGGAGGATCTG  
CGGGAGGTGGCAGCGGTGGAGGAGTAAAGACACTCACGAGTCTCCAGCATTGTCAGCGACTCCAGGAGAC  
AAAGTCAGCATCTCTGCAAAGCCAGCCAGACGTTGATGATGATGTGAACTGGTACCAACAGAGACCAGGAGAACCTC  
TATTTTtATTATTGAAGATGCTACTACTCTCGTTCCTGGAATCTCACCTCGATTCACTGGAGCGGGTATGGAACCCATT  
TTACCCCTACAATTAAACATCGATTCTGAGGATGCTGCATATTATTCTGTCTACAACATGATAATTCCCGCTCAC  
TTCGGGGAGGGACCAAGGTGGAGATCAAA

## **► Amino acid sequence of clone 15.150.12 scFv against loop 6 fragment of human CCR5 [SEQ ID NO: 21]:**

QVQLQQWGAGLLKSWGTLSTCAVSGASFQGYWSIQRPGKGLEWIGEINHRGTTYNPSLDGRTVTLISLDTSTNQISL  
KLTSMTAADTAVYYCARTVAGTSYWGQGTLTVSSGSASA  
PTGGGGSGGGGGSGGGGSKTTLTQSPA  
MSATPGD  
KVSISCKASRDVDDDVNWYQQRPG  
EAPIFIIEDATT  
LVP  
GISPRFSGSGYGTDF  
TLTINN  
IDSE  
AAYF  
CQLQHDNF  
PLT  
FGGGT  
KVEIK

**DNA sequence of clone 15.150.24 scFv against loop 6 fragment of human CCR5 [SEQ ID NO: 22]:**

CAGGTACACCTGAGGAGTCTGGTCTACGCTGGTGAACCCACACAGACCCCTCACGCTGACCTGCACCTCTCTGGTTC  
CTCACTCAGAACTACTGGAGAGGGTGTGGGCTGGGTCGTCAAGCCCCCAGGAAAGGCCCTGGAATGGCTTGACTCATTT  
ATTGGGATGATGATAAGCGCTACAGCCCCATCTCTGAAGAGCAGGCTCACCATCACCAGGACACCTCCAAAAGCAGGTG  
GTCTTACAATGACCAACGGGACCCAGGGACACAGCCACCTATTACTGTACACAGGAGCAATACTATTATGATACTAG  
TGGTCAGCCATACTACTTTGACTTCTGGGGCCAGGGCACCTGGTCACCGTCTCCTCAGGCGGTGGATCAGGCGCG  
GAGGATCTGGCGGAGGTGGCAGCGGTGGAGGCAGTAACATCCAGGTGACCAGTCTCCATCCTCCCTGTCTGCATCT  
GTAGGAGACAGAGTCACCATGACTTGCCGGCGAGTCAGGACATTAGGAAGAATTAAATTGGTATCAGCAAAACCAGG  
GAAAGCCCCTAAGGTCTGATCTACGATGCATCCGATTGGAAACAGGGATCCCATCAAGGTTCAGTGGAAAGTGGATCTG  
GGACAGATTTATCCTCACCATCAGCAGCCTGAGCCTGAAGATATTGCAACATACTACTGTCAACAGTCTGATTATTTA  
CCGCTCACTTTCGGCGGAGGGACCAAAGTGGATATCAAA

**Amino acid sequence of clone 15.150.24 scFv against loop 6 fragment of human CCR5 [SEQ ID NO: 23]:**

QVTLKESGPTLVKPTQTLTLTCTFSGFSLRTTGEGVGWVRQPPGKALEWLALIYWDDDKRYSPSLKSRLTITKDTSSKKQV  
VLTMTNVDPADTATYYCTHEQYYDTSGQPYYFDFWGQGTLVTVSSGGGSGGGGSGGGGSGGGGSNIQVTQSPSSLSAS  
VGDRVTMTCRASQDIRKNLNWYQQKPGKAPKVLIYDASDLETGIPSRFSGSGSGTDFILTISLQPEDIAATYYCQQSDYL  
PLTEGGGTKVDIK

## **FIGURE 6**

### **DNA sequence of a variant of clone 15.186.35 scFv against N-terminus fragment of human CCR5 [SEQ ID NO: 24]:**

```
CAGGTACCTTGAAGGAGTCTGGTCCCTACGTTGGTAAACCCACACAGACCCCTCACGCTGACCTGCACCTTGTCTGGTT  
CTCACTCAGCACTAGTGGAGTGAATGATGGCTACAGCCCCATCTCTGAAAAGCAGGCTCACCACCAAGgACACCCCCaAAAACCAGGTG  
GTCCTTGCATGAGCAACATGGACCCCTGCGGACACAGCCACATATTCCCTGTGCACTCGATATGCCCCCCATGATAGTGG  
CCCGCAATCTTTGATGCTCTGATGTCAGGGCCAGGGACAATGGTCACCGTCTCTCAGGCAGTGGATCAGGCG  
GCGGAGGATCTGGCGAGGTGGCAGCGGTGGAGGCAGTCCATGAGCTGATGCAGCTACCCCTCAGTGTCCGTGTCC  
CCAGGACAGACAGCCAGCATACCTGCTCTGGAGATAATTGGGGATAAATATGCCTGCTGGTATCAACAGAACGCCAGG  
CCGGTCCCCCTGTGCTGGTCAATTATGGAGATAACAAGCGGCCCTCAGGGATCCCTGAGCGATTCTGGCTCCAACCTG  
GGAACACAGCCACTCTGACCATCAGCGGGACCCAGGTATGGATGAGGCTGACTATTACTGTCAGGCAGTGGACACCAGC  
ACTGCTGCTTCGGAACCTGGGACCAAGCTACCGTCCTA
```

### **Amino acid sequence of a variant of clone 15.186.35 scFv against N-terminus fragment of human CCR5 [SEQ ID NO: 25]:**

```
QVTLKESGPTLVKPTQTLTLCATLSGFSLSTSGVSVGWIQPPGKALEWLASINWNDDKCYSPLKSLRLLTICKDTPKNQV  
VLAMSNMDPADTATYSCALDMPPHDSGPOSFDASDWPGPTMVTVSSGGGGSGGGGSGGGSSYELMQLPSVSV  
PGQTASITCSGDNLGDKYACWYQQKPGRSPLVIYGDNKRPSPGIPERFSGSNSGNTATLTISGTQAMDEADYYCQAWDTS  
TAVFGTGTKLTVL
```

### **DNA sequence of a variant of clone 15.150.11 scFv against loop 6 fragment of human CCR5 [SEQ ID NO: 26]:**

```
CAGGTGCAGCTGCAGGAGTCGGGCCAGGACTGGTGAAGCCTCGGAGACCCCTGCCACTTGCACGTCTCTGGTGG  
CTCCATCGTCATGACTACTGGAGCTGGATACGGCAGCCCCCAGGGGAGGGACTGGAGTGGATTGGTTCATCTTCTCG  
ATGGGAGCACCAACTACAACCCCTCCCTAACGGTCAGtCACCACACTCGACACGTCGAAGAACGCTCTCCCTG  
AGGCTGACCTCTGTGACCGCTCGGGACACGGCGTGTATTCTGTGCGAGACTAAAGGGGGCGTGGTTATTGTCTGAACC  
CCCTTACTTCAGCTCCGACGGCATGGACGTCTGGGCAAGGGACACGGTCACCGTCTCCTCAGGCAGTGGATCAG  
GCGCGGGAGGATCTGGCGAGGTGGCAGCGGTGGAGGCAGTAATTATGCTGACTCAGCCCCCTCAGCGTCTGGG  
ACCCCGGGCAGAGGGTCAGCATCTTGTCTGGGAGCAGCTCGACATCGGAAGTAATACTGTAACACTGGTACCAAGCA  
ACTCCCAGGAACGGCCCCAAACTCCTCATCTATAGTAATAATCAGCGGCCCTCAGGGTCCCTGACCGATTCTCTGGCT  
TCAAGTCTGGCACCTCAGCCTCCCTGGTCAGTGGCCTCCAGTCTGAGGATGAGGCTGATTATTGTGCAGCATGG  
GATGAGAGCCTGAATGGTGTGGTTCGGCGAGGAACCAAGGTGACCGTCCTA
```

### **Amino acid sequence of a variant of clone 15.150.11 scFv against loop 6 fragment of human CCR5 [SEQ ID NO: 27]:**

```
QVQLQESGPGLVKPSETSLTCTVSGGSIGHDYWSWIQPPGEGLEWIGFIFFDGSTNYNPSLNGRVTISLDTSKNQLSL  
RLTSVTAADTAVYFCARLKGAWLSEPPYFSSDGMVWQGTTVTVSSGGGGSGGGGSGGGGSNFMLTQPPSASG  
TPGQRVSISCSGSSSDIGSNTVNWYQQLPGTAPKLLIYSNNQRPSGVDRFSGFKSGTSASLVIISGLQSEDEADYYCAAW  
DESNGVVFGGGTKVTVL
```

**FIGURE 6 (cont.)**

**DNA sequence of a variant of clone 15.150.12 scFv against loop 6 fragment of human CCR5 [SEQ ID NO: 28]:**

**Amino acid sequence of a variant of clone 15.150.12 scFv against loop 6 fragment of human CCR5 [SEQ ID NO: 29]:**

**DNA sequence of a variant of clone 15.150.24 scFv against loop 6 fragment of human CCR5 [SEO ID NO: 30]:**

CAGGTACACCTGAAGGAGTCTGGTCTACGCTGGTGAACACAGACCCCTCACCGTGCACCTCTCTGGGTCTCACTCAGAACTACTGGAGGGTGTGGCTGGTCCGTAGCCCCCAGGAAAGGCCCTGGAATGGCTGCACTCATTTATTGGGATGATGATAAGCGCTACAGCCCCATCTCTGAAGAGCAGGCTACCCATCAGGACACCTCCAAAAGCAGGTGTCCTTACAATGACCAACGGGACACAGCCACCTATTACTGTACACACGAGCAATACTATTATGATACTAGTGGTCAGCCATACTACTTTGACTTCTGGGGCCAGGGCACCCCTGGTCACCGTCTCCTCAGGCGGTGGATCAGGCGGCGGAGGATCTGGCGGAGGTGGCAGCGGTGGAGGAGTAACATCCAGGTGACCCAGTCTCCATCCTCCCTGTCTGCATCTGTAGGAGACAGAGTCACCATGACTTGCCGGCGAGTCAGGACATTAGGAAGAATTAAATTGGTATCAGAAAACCAGGGAAGCCTTAAGGTCTGATCTACGATGCATCCATTGGAAACAGGGATCCCATCAAGGTTCAGTGGAAAGTGGATCTGGACAGATTTCCTCACCATCAGCAGCCTGCAGCCTGAAGATATTGCAACATACTACTGTCAACAGTCTGATTATTTACCGCTCACTTTCGCGGAGGGACCAAAAGTGGATATCAAA

**Amino acid sequence of a variant of clone 15.150.24 scFv against loop 6 fragment of human CCR5 [SEO ID NO: 31]:**

QVTLKESGPTLVKPTQTLTCTFSGFSLRTTGEGVGVWRQPPGKALEWLALIYWDDDKRYSPSLKSRLTITKDTSSKKV  
VLTMTNVDPAVTATYYCTHEQYYDTSGQPYFDFWGQGTLTVSSGGGSGGGGSGGGGSNIQVTQSPSSLSAS  
VGDRVTMTCRASQDIRKLNWYQQKPGKAPKVLITYDASDLETGIPSRFSGSGSGTDFILTIISSLQPEDIATYYCQQSDYL  
PLTEGGGGTKVJIK

## FIGURE 7

### Amino acid sequence alignment of variants of selected scFv antibodies against loop 6 of human CCR5

V<sub>H</sub> region:

15.150.1.1 QVQLQESGPGLVKPSETLSLTCTVSGGSI CDR1  
15.150.1.2 QVQLQWGAQIUKSWGTLSLTCAISGASF CDR2  
15.150.24 QVTLKESGPTLVKPTQFLPLCTFSGPSLRLTIGEYGVWQPRPGLTQVLTSSKQVVLTMNVDADATYCTHEQYYDTSQSPYY CDR3

15.150.1.1 QVQLQESGPGLVKPSETLSLTCTVSGGSI - - - - - GHDIYWSWIROPPGEGLEWIGI - - - - - GHDYWSWIROPPGEGLEWIGI  
15.150.1.2 QVQLQWGAQIUKSWGTLSLTCAISGASF - - - - - SGYWSWIROPPGEGLEWIGI  
15.150.24 QVTLKESGPTLVKPTQFLPLCTFSGPSLRLTIGEYGVWQPRPGLTQVLTSSKQVVLTMNVDADATYCTHEQYYDTSQSPYY - - - - - FDFWQGQPLTVVSS

V<sub>L</sub> region:

15.150.1.1 NFMLTQPPS-ASCTPGORYVISCSGSSS CDR1  
15.150.1.2 ETTLTOSPAFMSATPGDKVVISCKASR- CDR2  
15.150.24 NIQVTQSPSSLSASVGDRVTMTCRASQ- CDR3

15.150.1.1 NFMLTQPPS-ASCTPGORYVISCSGSSS-DIGGNTVANWQIQLPQARKLILY CDR1  
15.150.1.2 ETTLTOSPAFMSATPGDKVVISCKASR- -DVDDD- CDR2  
15.150.24 NIQVTQSPSSLSASVGDRVTMTCRASQ- -DI- CDR3

15.150.1.1 NFMLTQPPS-ASCTPGORYVISCSGSSS-DIGGNTVANWQIQLPQARKLILYQNNNQRPSPGVPDRFSGFKSGTASASLVIQGLOSEDEADYCYCAAMDESLNGVYFGGGTKVTVL  
15.150.1.2 ETTLTOSPAFMSATPGDKVVISCKASR- -DVDDD- VNWYQQRPGEAATIIFILEDATTLVPGSPRFSGGGYGTDFLTINNIDSEDAAYFCLOHDNF- -PLTFGGGTKVTVL  
15.150.24 NIQVTQSPSSLSASVGDRVTMTCRASQ- -DI- RENLNWYQQRPGKAPKVLIDASDLETGIPSRFSGSGSGTDFLTISLQPEDIATYTCQQSD- YL- PLTFGGGTKVTVL

## **FIGURE 8**

### **Amino acid sequences of variable regions of clone 15.186.35 scFv against N-terminus fragment of human CCR5**

V<sub>H</sub> region [SEQ ID NO: 34]:

QVTLKESGPTLVKPTQTLTCTLSGFSLSTSGVSVGVWIRQPPGKALEWLASINWNDDKCYSPLKSRLTITKDTPKNQV  
VLAMSNMDPADTATYSCALDMPPHDSPQSFDAWVWGPMTVSS

V<sub>L</sub> region [SEQ ID NO: 35]:

SYELMQLPSVSVPQQTASITCSGDNLGDKYACWYQQKPGRSPVLVIYGDNKRPNGIPEFSGNSGNTATLTISGTQAM  
DEADYYCQAWDTSTAVFGTGTKLTVL

### **Partial amino acid sequences of variable regions of clone 15.150.11 scFv against loop 6 fragment of human CCR5**

V<sub>H</sub> region [SEQ ID NO: 36]:

QVQLQESGPGLVKPSETLSLTCTVSGGSIGHDYWSWIRQPPGEGLEWIGFIFFDGSTYNPNSLNGRVTISLDTSKNQLSL  
RLTSVTAADTAVYFCARLKGAWLLSEPPYFSSDGMDVWQGQTTVTV

V<sub>L</sub> region [SEQ ID NO: 37]:

NFMLTQPPSAXGTPGQRVSISCGSSSDIGSNTVNWYQQLPGTAPKLLIYSNNQRPGVPDRFSGFKSGTSASLVISGLQ  
SEDEADYYCAAWDESNGVVFGGG

### **Partial amino acid sequences of variable regions of clone 15.150.12 scFv against loop 6 fragment of human CCR5**

V<sub>H</sub> region [SEQ ID NO: 38]:

QVQLQQWGAGLLKSWGTLSSLTCAVSGASFSGYYWSWIRQPPGKGLEWIGEINHRGTTYNPSLDGRVTISLDSTTNQISL  
KLTSMTAADTAVYYCARTVAGTSDYWGQGTLTVSS

V<sub>L</sub> region [SEQ ID NO: 39]:

TTLTQSPAFMSATPGDKVISCKASRDVDDDVNWYQQRPGEAPIFIIEDATTLVPGISPRFSGSGYGTDFTLTINNIDS  
EDAAYYFCLQHDNFPLTFGGGKVEIK

### **Amino acid sequences of variable regions of clone 15.150.24 scFv against loop 6 fragment of human CCR5**

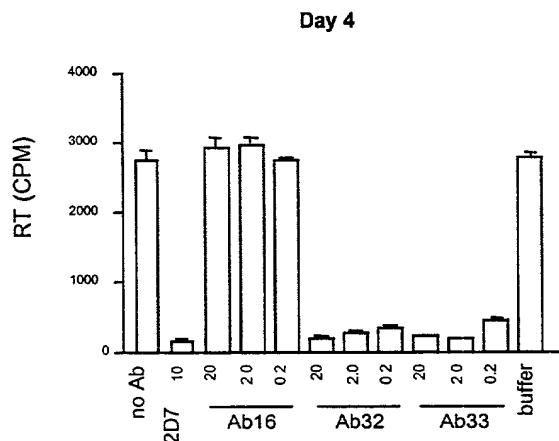
V<sub>H</sub> region [SEQ ID NO: 40]:

QVTLKESGPTLVKPTQTLTCTFSGFSLRTTGEVGWVRQPPGKALEWLALIYWDDDKRYSPSLKSRLTITKDTSKKQV  
VLTMTNVDPADTATYYCTHEQYYDTSGQPYYFDFWGQGTLTVSS

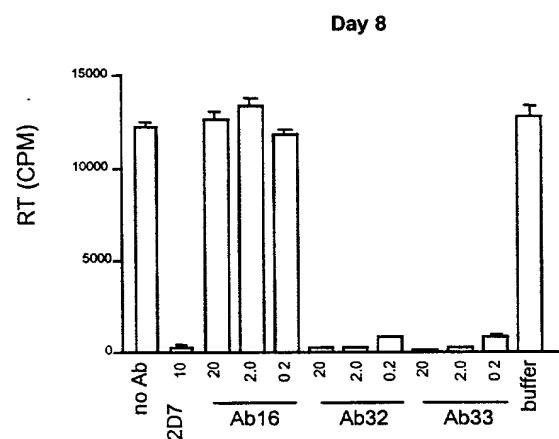
V<sub>L</sub> region [SEQ ID NO: 41]:

NIQVTQSPSSLSASVGDRVTMTCRASQDIRKNLNWYQQKPGKAPKVLIIYDASDLETGIPSRSFSGSGSGTDFILTISLQP  
EDIATYYCQQSDYLPLTFGGGKVDIK

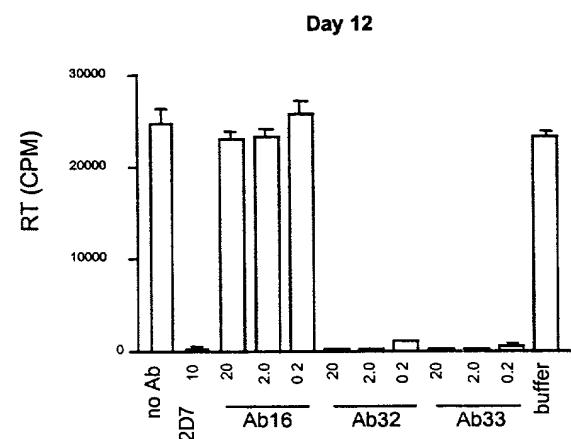
**FIGURE 9A**



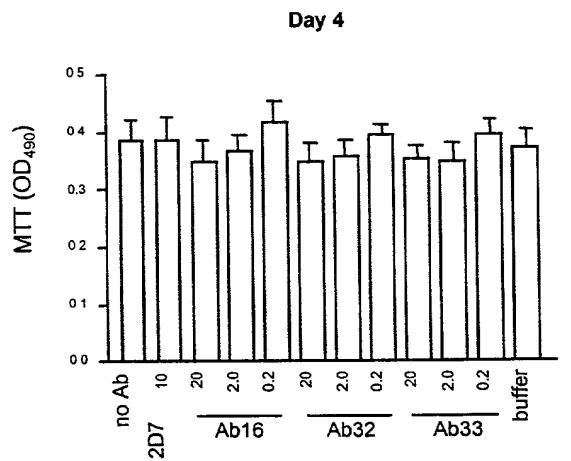
**FIGURE 9B**



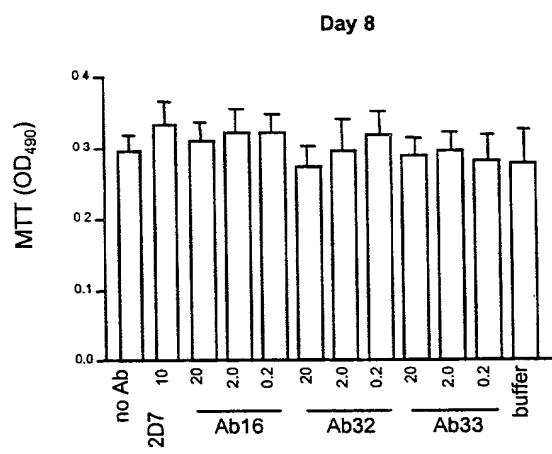
**FIGURE 9C**



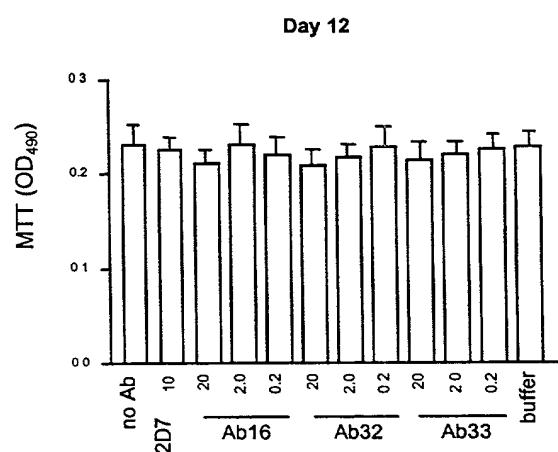
**FIGURE 10A**



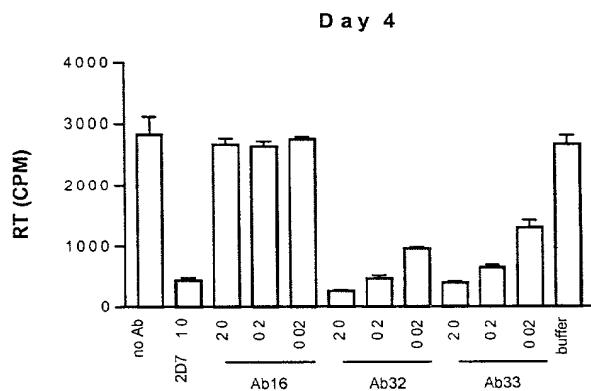
**FIGURE 10B**



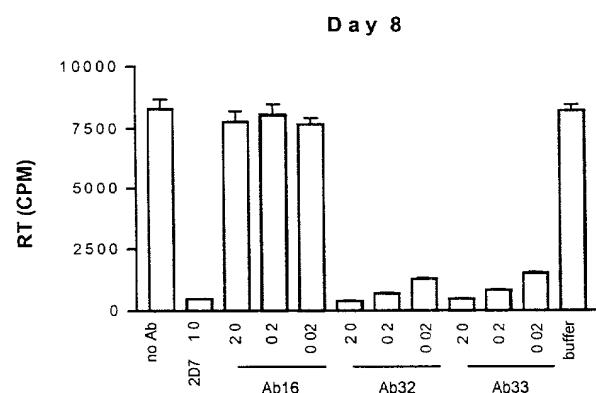
**FIGURE 10C**



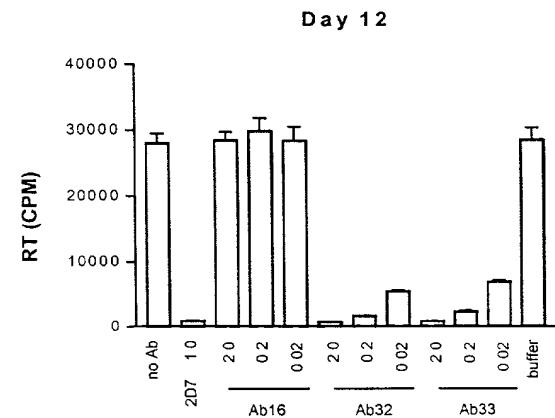
**FIGURE 11A**



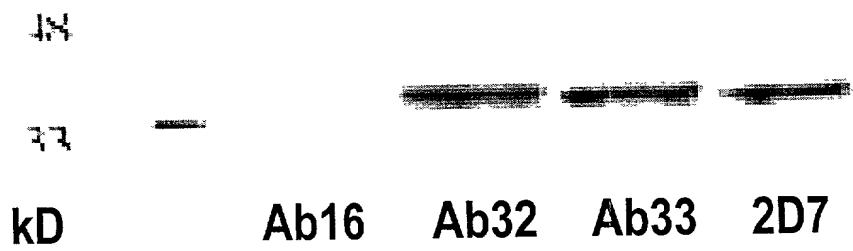
**FIGURE 11B**



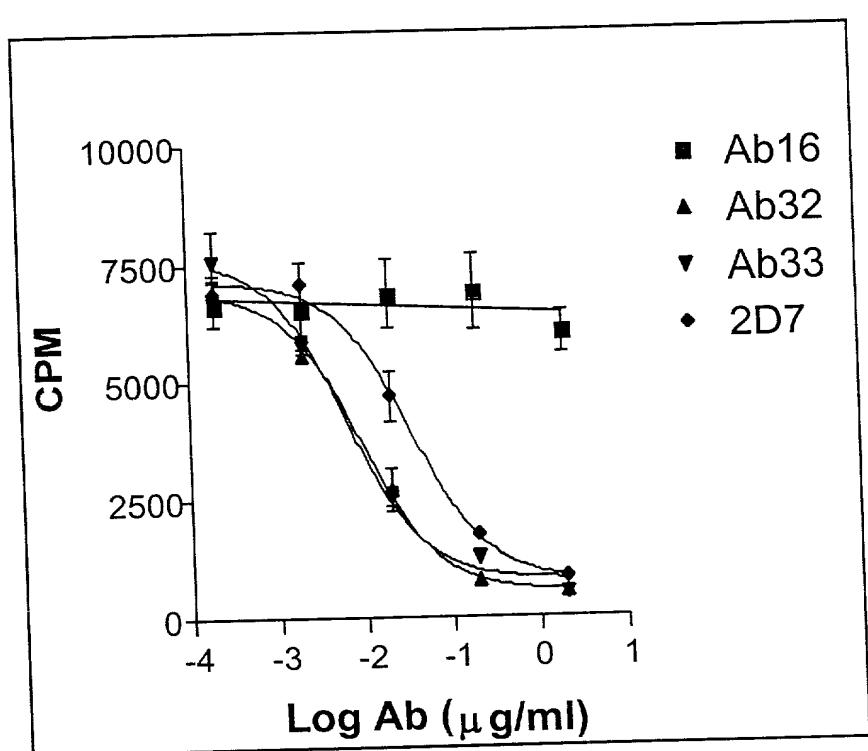
**FIGURE 11C**



**FIGURE 12**



**FIGURE 13**



**FIGURE 14**

